

Product datasheet for **TA386308**

MS4A4A Mouse Monoclonal Antibody [Clone ID: 5C12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C12
Applications:	FC, IP
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, lambda
Clonality:	Monoclonal
Immunogen:	This antibody was generated by immunizing C57BL/6 mice against mouse cell line 300-19 expressing transfected human membrane-spanning 4-domains subfamily A member 4A (MS4A4A)-GFP.
Specificity:	<p>This antibody is specific for human extracellular MS4A4A. 5C12 mAb only partially cross-blocked either 4H2 (Ab01373) and 3F2 (Ab01375) and therefore probably detects a unique or overlapping epitope (Sanyal et al., 2017; PMID: 28303902). MS4A (membrane-spanning 4-domain family, subfamily A) is a large family of proteins that includes at least 26 members in mouse and humans. Flanked by amino- and carboxyl- cytoplasmic regions, MS4A family members contain four highly conserved transmembrane domains connected by short extracellular and cytoplasmic loops. MS4A4A is likely to be a component of oligomeric cell surface complexes involved in signal transduction in diverse cell lineages.</p> <p>5C12 is recommended for the detection and analysis of expression of MS4A4A. Importantly, MS4A4A has been shown to be a marker for M2 macrophages and plasma cells and to be overexpressed in multiple myelomas, suggesting a potential role in targeting alternatively activated macrophages such as tumor-associated macrophages, and in the treatment of multiple myeloma and mantle cell lymphoma (Sanyal et al., 2017; PMID: 28303902). The antibody 5C12 can be successfully used for the detection of MS4A4A-expressing cells via flow cytometry (Sanyal et al., 2017; PMID: 28303902). Finally, specificity of this antibody was additionally confirmed via immunoprecipitation of lysates of BJAB MS4A4A-HA cells (Sanyal et al., 2017; PMID: 28303902).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific



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Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	membrane spanning 4-domains A4A
Database Link:	Entrez Gene 51338 Human Q96JQ5
Synonyms:	4SPAN1; CD20-L1; CD20L1; HDCME31P; MGC22311; MS4A4; MS4A7